PATENT COOPERATION TREATY

ENIOS ALLIES 09/889961

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

HENKEL, FEILER & HÄNZEL Möhlstrasse 37 81675 - MÜNCHEN ALLEMAGNE 1 April 20th PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT (PCT Rule 71.1)

Date of mailing

(day/month/year)

10.04.2001

Applicant's or agent's file reference

MCA-422 PC

IMPORTANT NOTIFICATION

International application No. PCT/US00/02194

International filing date (day/month/year) 27/01/2000

Priority date (day/month/year)

29/01/1999

Applicant

MILLIPORE CORPORATION et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

Authorized officer

 European Patent Office D-80298 Munich

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fuerbass, C

Fax: +49 89 2399 - 4465

Tel.+49 89 2399-8132



# PATENT COOPERATION TREATY 09/889961

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant'	s or agent's file reference						
MCA-42	22 PC	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
Internation	nal application No.	International filing date (day/month)	Vyear) Priority date (day/month/year)				
PCT/US	00/02194	27/01/2000	29/01/1999				
B01D69 Applicant	nal Patent Classification (IPC) or na /00	tional classification and IPC					
1. This and i	<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>						
2. This	REPORT consists of a total of	6 sheets, including this cover she	eet.				
	and and the basis	I by ANNEXES, i.e. sheets of the is for this report and/or sheets co 7 of the Administrative Instruction	e description, claims and/or drawings which have ontaining rectifications made before this Authority ons under the PCT).				
These	e annexes consist of a total of	sheets.					
3. This r	eport contains indications relati	ing to the following items:					
1	Basis of the report		ı				
11	☐ Priority						
111	Non-establishment of op	inion with regard to novelty, inver	entive step and industrial applicability				
IV	Lack of unity of invention	1					
V 		a ankarming addit atatement	ovelty, inventive step or industrial applicability;				
VI	☐ Certain documents cited						
VII VIII	☐ Certain defects in the inte						
• • • • • • • • • • • • • • • • • • •	Certain observations on i	the international application					
Date of subn	nission of the demand	Date of cor	mpletion of this report				
16/08/200		10.04.2001	1				
Name and m preliminary e	ailing address of the international xamining authority:	Authorized	officer Section 1				
<u> </u>	European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 e	pmu d Luethe, F					
	Fax: +49 89 2399 - 4465  AV409 (cover sheet) (January 1994	Telephone	No. +49 89 2399 7519				
	· · ···· (vove: sileet) (January 1994	.1					

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/02194

<ol> <li>Basis of the r po</li> </ol>	π
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	an	e receiving Office in ad are not annexed to escription, pages:	response to an invitation under Article 14 are referred to in this report as "originally filed" o this report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-3	30	as originally filed
	Cla	aims, No.:	
	1-4	17	as originally filed
	Dra	awings, sheets:	
	1/1	1-11/11	as originally filed
2.	Wit lan	th regard to the lang guage in which the i	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).
			blication of the international application (under Rule 48.3(b)).
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule
3.	Witi inte	h regard to any <b>nuc</b> rnational preliminar	leotide and/or amino acid sequence disclosed in the international application, the yexamination was carried out on the basis of the sequence listing:
			ernational application in written form.
			he international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
		furnished subseque	ently to this Authority in computer readable form.
		The statement that the international ap	the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.
1.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		-,	

1. With regard to the elements of the international application (Replacement sheets which have been furnished to

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/02194

		the drawings,	sheets:
5.		This report has been considered to go be	n established as if (some of) the amendments had not been made, since they have been yond the disclosure as filed (Rule 70.2(c)):
		(Any replacement st report.)	neet containing such amendments must be referred to under item 1 and annexed to this
6.	Ado	ditional observations, i	if necessary:

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

e. Claim

Claims 3,4,6-9,12-18,21-26,30,32-42,44-47

No: Claims

Claims 1,2,5,10,11,19,20,27-29,31,43

Inventive step (IS)

Yes:

Claims

No: Claims 1-47

Industrial applicability (IA)

Yes: Claims 1-47

No: Claims

2. Citations and explanations see separate sheet

### VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

# VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

#### R Item VIII

# Certain observations on th international application

- The application does not meet the requirements of Article 6 PCT, because claims 1. 1, 5, 10, 13-15 (product claims: A), 19, 31 (method claims: B) and 43 are not clear.
- Although the groups of claims A and B have been drafted as separate in-2. dependent claims, they appear to relate within each single group effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought or in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness.

Moreover, lack of clarity of the claims as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought, and places an undue burden on others seeking to establish the extent of the protection.

In this case one claim per category (A and B) is appropriate.

Present claim 43 refers to "the method of any of the Claims 18 and 31". Claim 18 3. however is a product claim. This inconsistency leads to an ambiguity about the scope of the claim, thus rendering it unclear; accordingly, the claim requires amendment to remove this defect.

In this case it would seem that the intended reference is to product claim 19.

### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
  - D1: US-A-5 490 931 (T.-SH.CHUNG ET AL) 13 February 1996 (1996-02-13)
  - D2: US-A-4882223 [corresponds to FR-A-2 566 003 (INSTITUT NATIONAL DE LA RECHERCHE APPLIQUEE ET AL) 20 December 1985 (1985-12-20)];

annexed to this communication.

- 2. In so far as what can be understood from the claims: The present application does not satisfy the criterion set forth in Article 33 (2) PCT because the subject-matter of claims 1, 2, 5, 10, 11, 19, 20, 27-29, 31 and 43 is not new as defined in the regulations (Rule 64 (1)-(3) PCT).
- 2.1. Document D1 (for citations see the International Search Report), discloses a hollow fibre membrane made of perfluorinated thermoplastic comprising a skinned, dense (i.e. non-porous) surface on one diameter and a porous surface on the opposite diameter and a process for its manufacture (cf. col. 1, lines 26-33; col. 2, lines 6-24; the examples; claim 1). It is obviously usable for ultrafiltration (cf. col. 2, lines 25-27; col. 4, lines 3-19).
- 2.2. Claims for products defined in terms of a process of manufacture (present claim 43) are admissible only if the products as such fulfil the requirements of patentability, i.e. inter alia that they are new and inventive. A product is not rendered novel merely by the fact that it is produced by means of a new process. This is, as far as the subject-matter of claim 43 is concerned, not the case here (see point 2.1 above).
- 2.3. The applicant's attention is further drawn to the fact that D2, independently from D1, forms a novelty bar for the subject-matter of the same claims 1, 2, 5, 10, 11 and 43 (cf. col. 2, lines 9-34, lines 45-48; col. 6, line 65 to col. 7, line 9; fig. 2, 4, 7; example 2; claims 1 and 2).
- 2.4. Presently it seems that claims 3, 4, 6-9, 12-18 and 44-47 do not contain any features which meet the requirements of the PCT in respect of inventive step.
- 2.5. Present claim 19 obviously refers to a wet spinning method of hollow fibres ("... a portion of said die being submerged in a cooling bath ...") whereas claim 31 refers to a dry-wet spinning method of hollow fibres (cf. step d) of claim 31).
  - The method of claim 19 is anticipated by the teachings of D1 (cf. col. 2, line 63 to col. 4, line 2; col. 4, line 50, example 1) and that of claim 31 by D2 (cf. col. 3, line

66 to col 4, line 47).

Thus, as D1 discloses all the technical features defined by the subject-matter of claims 19, 20, 27-29 of the present application and D2 discloses all the technical features defined by the subject-matter of claim 31, said subject-matter is not new in respect of prior art as defined in the regulations (Rule 64(1)-(3) PCT).

2.6. Presently it seems that claims 21-26, 30 and 32 to 42 do not contain any features which meet the requirements of the PCT in respect of inventive step.

### Re Item VII

### Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 and D2 is not mentioned in the description, nor is this document identified therein.

### (19) World Intellectual Property Organization International Bureau



# 

### (43) International Publication Date 3 August 2000 (03.08.2000)

**PCT** 

### (10) International Publication Number **WO 00/44482 A3**

(51) International Patent Classification7: 71/36, D01D 5/24

B01D 69/08,

(21) International Application Number: PCT/US00/02194

(22) International Filing Date: 27 January 2000 (27.01.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/117,854

29 January 1999 (29.01.1999)

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:

60/117,854 (CIP)

Filed on

29 January 1999 (29.01.1999)

- (71) Applicant (for all designated States except US): MILLI-PORE CORPORATION [US/US]; 80 Ashby Road, Bedford, MA 01730 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CHENG. Kwok-Shun [US/US]; 7 Federal Hill Road, Nashua, NH 03062 (US). GATES, T., Dean [US/US]; 27 Nellian Way, Bedford, MA 01730 (US). YEN, Larry, Y. [US/US]; 10 Pomeroy Road, Andover, MA 01810 (US). PATEL,

Rajnikant, B. [IN/US]; 22 Breckenridge Road, Tewksbury, MA 01876 (US).

- (74) Agent: HUBBARD, John, Dana; Millipore Corporation, 80 Ashby Road, Bedford, MA 01730 (US).
- (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published:

With international search report.

(88) Date of publication of the international search report: 28 December 2000

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



Into. onal Application No PCT/US 00/02194

A CLASSII IPC 7	FICATION OF SUBJECT MATTER 801D69/08 B01D71/36 D01D5/24		
According to	International Patent Classification (IPC) or to both national classification	on and IPC	
	SEARCHED		
Minimum do IPC 7	currentation searched (classification system followed by classification B01D D01D	symbols)	•
Documentat	tion searched other than minimum documentation to the extent that suc	th documents are included in the fields sea	rched
	ata base consulted during the international search (name of data base ta, PAJ, EPO-Internal	and, where practical, search terms used)	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant	/ant passages	Relevant to claim No.
X	US 5 490 931 A (TSH.CHUNG ET AL 13 February 1996 (1996-02-13) column 2, line 11-19		1,2,5
A	FR 2 566 003 A (INSTITUT NATIONAL RECHERCHE APPLIQUEE ET AL) 20 December 1985 (1985-12-20) claims 1,8	DE LA	1,5,19
A	US 4 902 456 A (L.Y.YEN ET AL) 20 February 1990 (1990-02-20) cited in the application claims		19,27, 28,31, 38,39
A	US 4 990 294 A (L.Y.YEN) 5 February 1991 (1991-02-05) cited in the application claims; examples		19,27, 28,31, 38,39
Fur	ther documents are listed in the continuation of box C.	X Patent family members are listed in	n annex.
*Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filling date invention but published on or after the international filling date invention invention  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filling date but later than the priority date claimed  "I" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention of particular relevance; the claimed invention cannot be considered to involve an invention the document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "A" document of particular relevance; the claimed invention cannot be considered to involve an invention document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "A" document of particular relevance; the claimed invention cannot be considered to involve an invention or c			
	e actual completion of the international search  11 July 2000	Date of mailing of the international sea $19/07/2000$	rch report
	mailing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5616 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Cordero Alvarez, I	Ч

1

# INTERNATIONAL SEARCH REPORT

information on petent family members

Inte. Jonal Application No PCT/US 00/02194

Patent document cited in search repor	t	Publication date	1	Patent family member(s)	Publication date
US 5490931	A	13-02-1996	NON	E	
FR 2566003	Α	20-12-1985	AT	68991 T	15-11-1991
			DE	3584562 A	05-12-1991
			EP	0183757 A	11-06-1986
			WO	8600028 A	03-01-1986
			US	4882223 A	21-11-1989
US 4902456	A	20-02-1990	DE	68923319 D	10-08-1995
			DE	68923319 T	04-01-1996
			EP	0340732 A	08-11-1989
			JP	2548092 B	30-10-1996
			JP	8034874 A	06-02-1996
			JP	2208329 A	17-08-1990
			JP	2573524 B	22-01-1997
			US	4906377 A	06-03-1990
			US	4990294 A	05-02-1991
		<del></del>	US	5032274 A	16-07-1991
US 4990294	Α	05-02-1991	US	4902456 A	20-02-1990
			US	5032274 A	16-07-1991
			DE	68923319 D	10-08-1995
			DE	68923319 T	04-01-1996
			EP	0340732 A	08-11-1989
			JP	2548092 B	30-10-1996
			JP	8034874 A	06-02-1996
			JP	2208329 A	17-08-1990
			JP	2573524 B	22-01-1997
			US	4906377 A	06-03-1990

# PATENT COOPERATION TREATY

### **PCT**

### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

## From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24

Arlington, VA 22202 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year)
30 October 2000 (30.10.00)

International application No. PCT/US00/02194

International filing date (day/month/year) 27 January 2000 (27.01.00) Applicant's or agent's file reference

MCA-422 PC

Priority date (day/month/year)

29 January 1999 (29.01.99)

**Applicant** 

CHENG, Kwok-Shun et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	16 August 2000 (16.08.00)
	in a notice effecting later election filed with the International Bureau on:
_	
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
	Note 52.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Simin Baharlou

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38

# FPATENT COOPERATION THEATY

# From the INTERNATIONAL SEARCHING AUTHORITY

MILLIPORE CORPORATION Attn. HUBBARD, JOHN DANA 80 Ashby Road Bedford, Massachusetts 01730

# PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

UNITED STATES OF AMERICA	(PCT Rule 44.1)						
	Date of mailing (day/month/year) 19/07/2000						
Applicant's or agent's file reference							
MCA-422 PC	FOR FURTHER ACTION See paragraphs 1 and 4 below						
International application No.	International filing date						
PCT/US 00/02194	(day/month/year) 27/01/2000						
Applicant MILLIPORE CORPORATION et al.							
1. X The applicant is hereby notified that the International Search	Report has been established and is transmitted herewith						
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim							
When? The time limit for filing such amendments is norma international Search Report; however, for more de	When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.						
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35							
For more detailed instructions, see the notes on the accompanying sheet.							
<ol> <li>The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.</li> </ol>	The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.						
With regard to the protest against payment of (an) addition	nal fee(s) under Rule 40.2, the applicant is notified that:						
the protest together with the decision thereon has been applicant's request to forward the texts of both the protest.	troppeditted to the later of the						
no decision has been made yet on the protest; the appli	cant will be notified as soon as a decision is made.						
4. Further action(s): The applicant is reminded of the following:							
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.							
Within 19 months from the priority date, a demand for international wishes to postpone the entry into the national phase until 30 months	ins non the phonty date (in some Offices even later).						
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.							

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Renate Jordan

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)



**INTERNATIONAL SEARCH REPORT** 

	(PCT Article 18 and Rules 43 and 44)				
Applicant's or agent's file reference	(Form PCT/ISA/2	of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.			
MCA-422 PC	ACTION				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/US 00/02194	27/01/2000	29/01/1999			
Applicant					
W	_				
MILLIPORE CORPORATION et	al.	1-27-77-1 <sub>1</sub>			
This International Search Report has bee according to Article 18. A copy is being tr	on prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant			
This International Search Report consists  It is also accompanied by	of a total of sheets.  a copy of each prior art document cited in this	report.			
1. Basis of the report					
<ul> <li>With regard to the language, the language in which it was filed, unit</li> </ul>	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the			
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this			
<ul> <li>With regard to any nucleotide an was carried out on the basis of the</li> </ul>	nd/or amino acid sequence disclosed in the in	ternational application, the international search			
	e sequence listing : onal application in written form.				
filed together with the international application in computer readable form.					
furnished subsequently to this Authority in written form.					
furnished subsequently to this Authority in computer readble form.					
the statement that the sub	osequently furnished written sequence listing do s filed has been furnished.	oes not go beyond the disclosure in the			
the statement that the info furnished	ormation recorded in computer readable form is	identical to the written sequence listing has been			
2. Certain claims were four	nd unsearchable (See Box I).				
3. Unity of invention is laci					
4. With regard to the title,					
the text is approved as sul	bmitted by the applicant.				
	hed by this Authority to read as follows:				
5. With regard to the abstract,					
the text is approved as sut the text has been establish within one month from the	omitted by the applicant. ned, according to Rule 38.2(b), by this Authority date of mailing of this international search repo	as it appears in Box III. The applicant may,			
6. The figure of the drawings to be public		or, submit comments to this Authority.			
as suggested by the applic because the applicant faile		None of the figures.			
=	to suggest a figure. Characterizes the invention.				
Decade and righte better t	Sharacterizes the invention.				

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# INT! VATIONAL SEARCH REPORT

...ternational Application No PCT/US 00/02194

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01069/08 B010 B01D71/36 D01D5/24 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 B01D D01D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, PAJ, EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 5 490 931 A (T.-SH.CHUNG ET AL) 1,2,5 13 February 1996 (1996-02-13) column 2, line 11-19 Α FR 2 566 003 A (INSTITUT NATIONAL DE LA 1,5,19 RECHERCHE APPLIQUEE ET AL) 20 December 1985 (1985-12-20) claims 1.8 Α US 4 902 456 A (L.Y.YEN ET AL) 19,27, 20 February 1990 (1990-02-20) 28,31, cited in the application 38,39 claims Α US 4 990 294 A (L.Y.YEN) 19,27, 5 February 1991 (1991-02-05) 28,31, cited in the application 38,39 claims; examples Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents : \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 11 July 2000 19/07/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Cordero Alvarez, M

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